SUBJECT PARCEL IS SHOWN AS ASSESSORS MAP 17, LOT 08A. RECORD TITLE FROM BOOK 56111, PAGE 144.

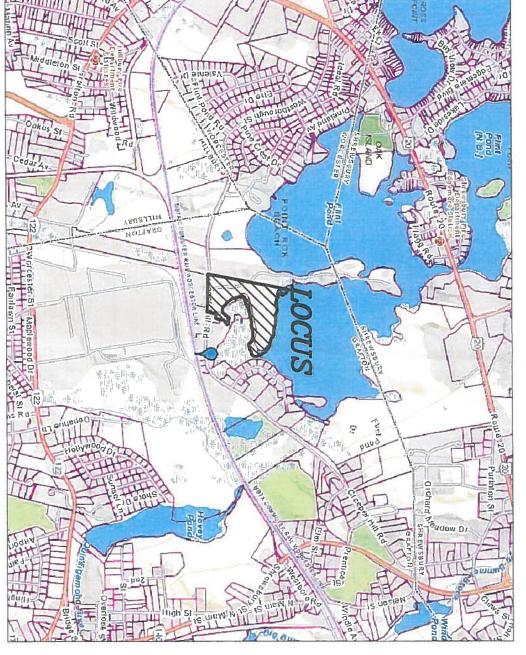
- 2. UTILITY LOCATIONS DEPICTED ON THIS PLAN, BOTH ABOVE— AND BELOW—GROUND, ARE BASED UPON DIRECT FIELD OBSERVATIONS MADE BY METROWEST ENGINEERING, INC. PERSONNEL DURING A FIELD SURVEY, RECORD PLAN LOCATIONS, OR DIGSAFE PAINT—INDICATORS. METROWEST ENGINEERING, INC. DOES NOT WARRANT THAT ALL UTILITIES THAT ARE DEPICTED ARE SHOWN IN THE CORRECT LOCATION, OR WITH THE PROPER MATERIAL DESIGNATION, METROWEST ENGINEERING, INC. DOES NOT WARRANT OR PROVIDE AN EXPRESS OR IMPLIED WARRANTY THAT ALL SUBSURFACE IMPROVEMENTS ARE SHOWN OF ARE SHOWN CORRECTLY, INCLUDING, BUT NOT LIMITED TO, UTILITIES, UNDERGROUND VAULITS, UNDERGROUND TANKS OR CHAMBERS, BUNKERS, DUCT BANKS, AND/OR OTHER MAN-MADE IMPROVEMENTS THAT LIE BENEATH THE GROUND SURFACE AT THE TIME OF THE SURVEY.
- S, CONTRACTOR IS SOLELY RESPONSIBLE FOR ESTABLISHING EXISTING LOCATIONS OF ALL SUB-SURFACE UTILITIES AND MAN-MADE MAPOVEMENTS AND FOR THE REQUIREMENTS TO REPLACE, RELOCATE OR REPAIR EXISTING UTILITIES IN THE EVENT OF DAMAGE OCCURRING LORING CONSTRUCTION. MAYE IS NOT RESPONSIBLE OR LIABLE FOR DELAYS OR COSTS ASSOCIATED WITH REMOVING/REPLACING/RELOCATING OF EXISTING UTILITIES REGARDLESS OF WHETHER SAID UTILITIES ARE ACCURATELY DEPICTED ON THIS SURVEY. THE PROPERTY DESCRIBED ON THIS SURVEY LIES PARTALLY WITHIN A SPECIAL FLOOD HAZARD AREA AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY; THE PROPERTY LIES WITHIN ZONE "X" OF THE FLOOD INSURANCE RATE MAP DUNHERED AS MAP NUMBER 25027C0B26E BEARING AN EFFECTIVE DATE OF JULY 4, 2011.
- THE PROPERTY IS SUBJECT TO A LEASE AGREEMENT RECORDED IN BOOK 55025, PAGE 301.



CONTRACTOR TO VERIEY ACTUAL LOCATION OF EXISTING UTILITY SERVICES IN THE FIELD PRIOR TO CONSTRUCTION (WATER, ELECTRICAL, ETC.)
CALL DIG-SAFE BEFORE YOU DIG 811.

OLI— OFFICE/LIGHT INDUSTRIAL
ANY NON-RESIDENTIAL USE
MINIMUM AREA= 40,000 SOUARE FEET
MAXIMUM FRONTAGE = 120 FEET
SETBACKS:
FRONT YARD= 40 FEET
SIDE YARD = 35 FEET
REAR YARD= 35 FEET
REAR YARD= 35 FEET
LOT COVERAGE= 40%

104 CREEPERPROPOSEHILLROADSITEGRAFTON, DEVELOPMENT SETMASS ACHUSETTS



LE EXHIBIT

RECEIVED

NOV - 2 2016

PLANNING BOARD GRAFTON, MA

SHEETINDEX

SHEET C200 — EROSIUN AND JUNION PLAN
SHEET C300 & C301 — PROPOSED LAYOUT PLAN
SHEETS C400 & C401 — PROPOSED GRADING PLAN
SHEETS C500 & C501 — PROPOSED SITE PLAN SHEET COVER SHEET C600-LANDSCAPING PLAN C700 & C701- DETAIL PLAN C100 ---EXISTING CONDITIONS PLAN
C200 ---EROSION AND SEDIMENT CONTROL PLAN SHEET

104 CREEPER HILL ROAD

DESCRIP TION	REQUIRED OLI ZONE	EXISTING	PROPOSED
LOT AREA	40,000 SQ. FT. (MIN.)	666.271± SQ. FT.	666.271± SQ. FT
LOT FRONTAGE	120 FT. (MIN.)	574.48 FT.	574.48 FT.
FRONT YARD SETBACK	40 FT. (MIN.)	N.A.	80.2 FT.
SIDE YARD SETBACK	35 FT. (MIN.)	N.A.	37.0 FT.
REAR YARD SETBACK	35 FT. (MIN.)	N.A.	135,1 FT.
MAX BUILDING HEIGHT	35 FT.	N.A.	25.0 FT.
FLOOR AREA	N/A	N.A.	12,000 SQ. FT
FLOOR AREA RATIO	N/A	N.A.	0.018
MAX LOT COVERAGE	N.A.	N.A.	0.018
BUILDING AREA	40%	N.A.	13,050 SQ. FT
OTHER IMPERMOUS SURFACES	N/A	9,855 SQ. FT.	76,269 SQ. FT.
TOTAL IMPERVIOUS AREA	N/A	9.855 SQ. FT.	89,319 SQ. FT.
PARKING	13 SPACES	N.A.	16 SPACES
HANDICAP PARKING	1 SPACE	1 SPACE	1 SPACE
LANDSCAPED OPEN SPACE SURFACE RATIO	N.A.	N.A.	0.200
UPLAND AREA	40,000 SQ. FT. (MIN.)	593.548 SO. FT. 593.548 SO. FT.	593,548 SQ. FT.

TRANSPORTATION INDUSTRIAL AND UTILITY USE

1.3 SPACE PER EMPLOYEE FOR MAXIMUM

SHIFT

PROPOSED FLOOR AREA/BAYS 10 EMPLOYEES

TOTAL

NUMBER OF PROPOSED EXTERIOR PARKING SPACES TOTAL NUMBER OF REQUIRED PARKING SPACES

13.0

PROPOSED PARKING

REQUIREMENTS

GRAFTON PLANNING BOARD

THE ENDORSEMENT OF THE PLANNING BOARD SHOULD NOT BE CONSTRUED TO BE A DETERMINATION OF CONFORMANCE WITH ZONING REGULATIONS.

CALC'D BY: BIN DRAFTER: BIN

PROJECT: GRF_CRE DWG FILE: SP110116.dwg

COVER SHEET

DATE: NOVEMBER 1, 2016

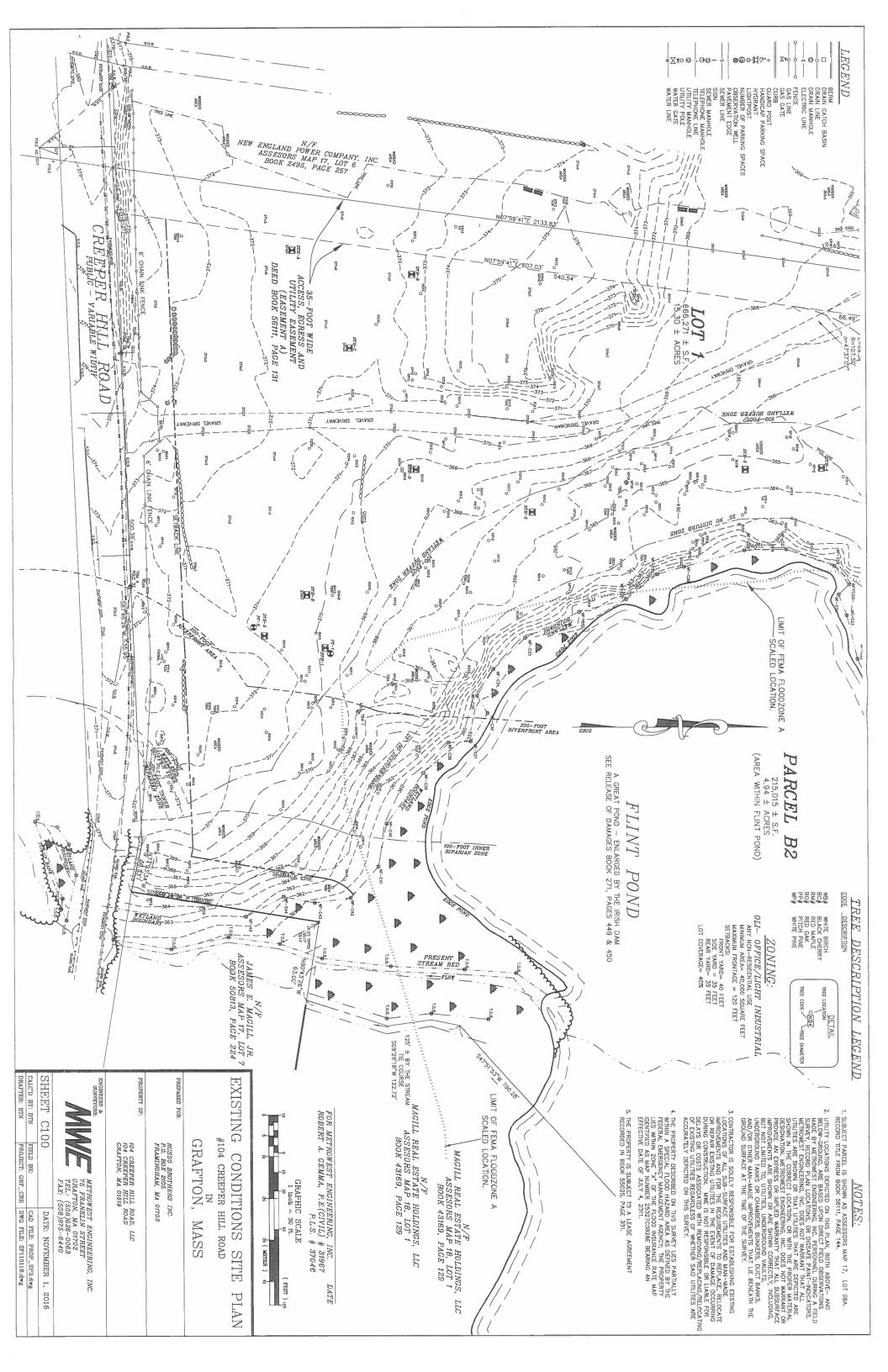
		22.300	- 271	
ENGINEZES & SURVEXORS: METROWEST ENGINEERING, INC. 75 FRANKLIN STREET	PROPERTY OF: 104 CREEPER HILL ROAD, LLC 104 CREEPER HILL ROAD CRAFYON, MA 01519	PRITARED FOR: RUSSO BROTHERS INC. P.O. BOX 2105 FRAMINGHAM, MA 01703	GRAFTON, MASS	COVER SHEET #104 CREEPER HILL ROAD

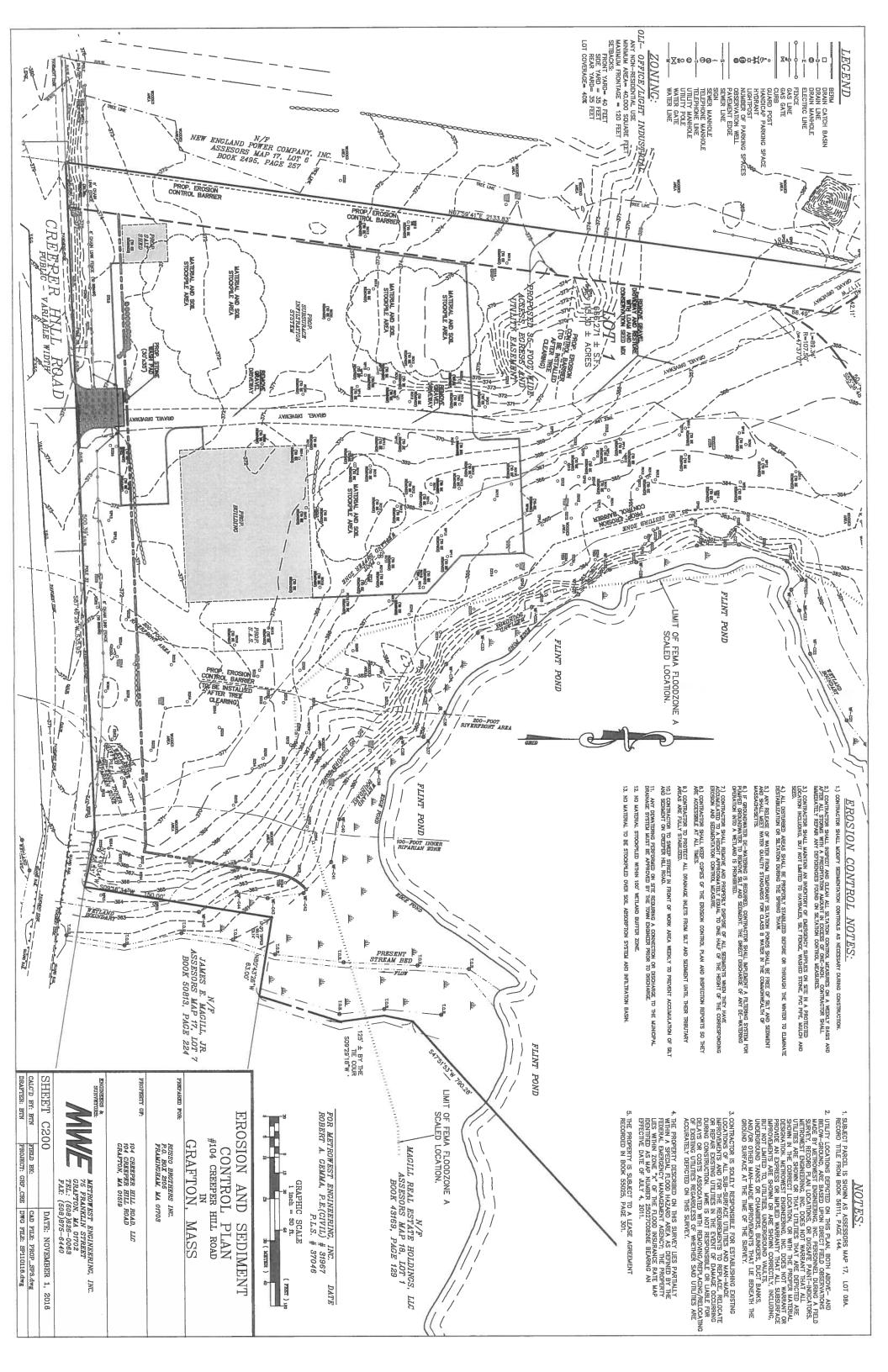
FOR METROWEST ENGINEERING, INC. ROBERT A. CEMMA, P.E.(CIVIL) # 31967 P.L.S. # 37046

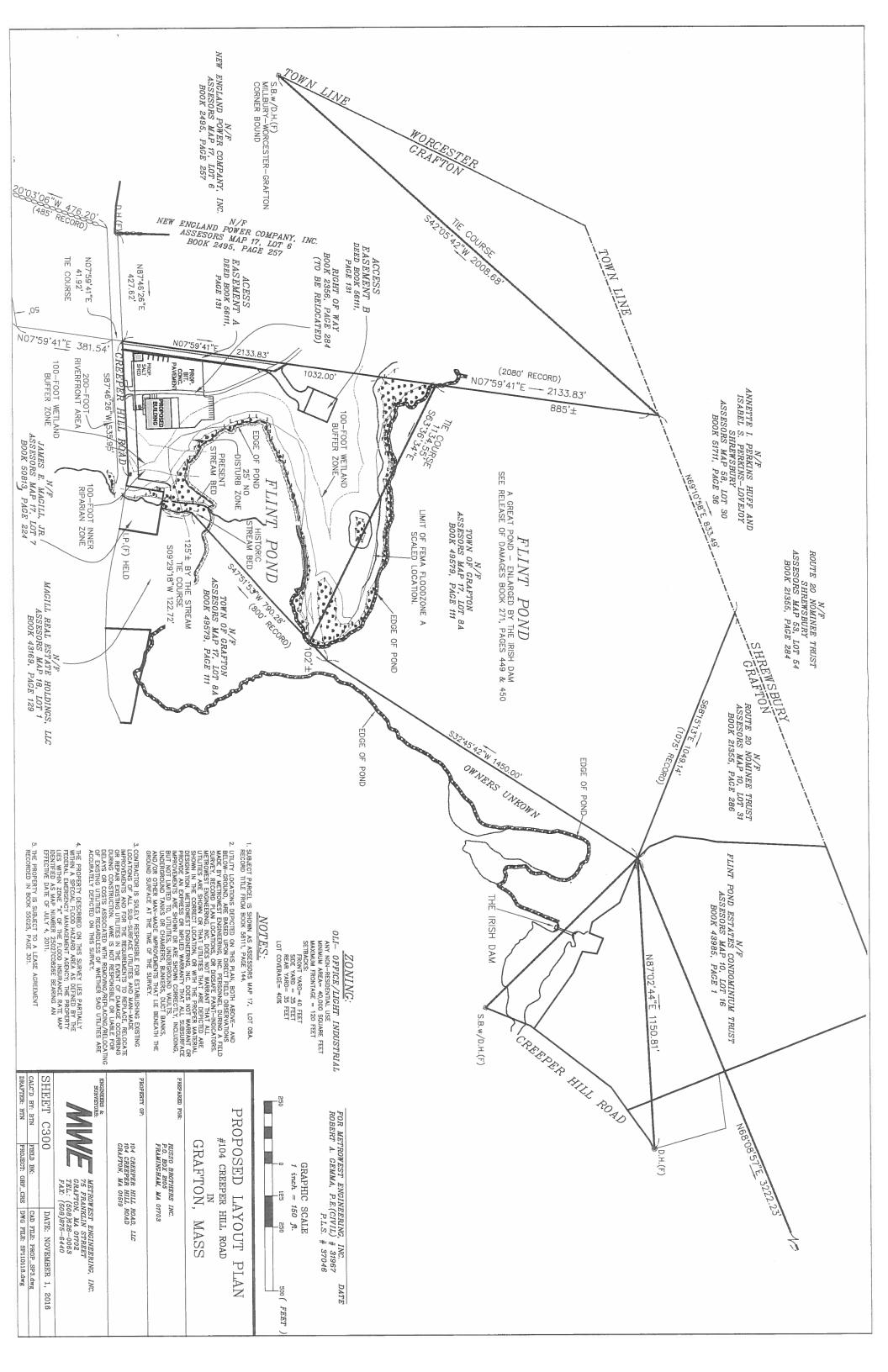
DATE

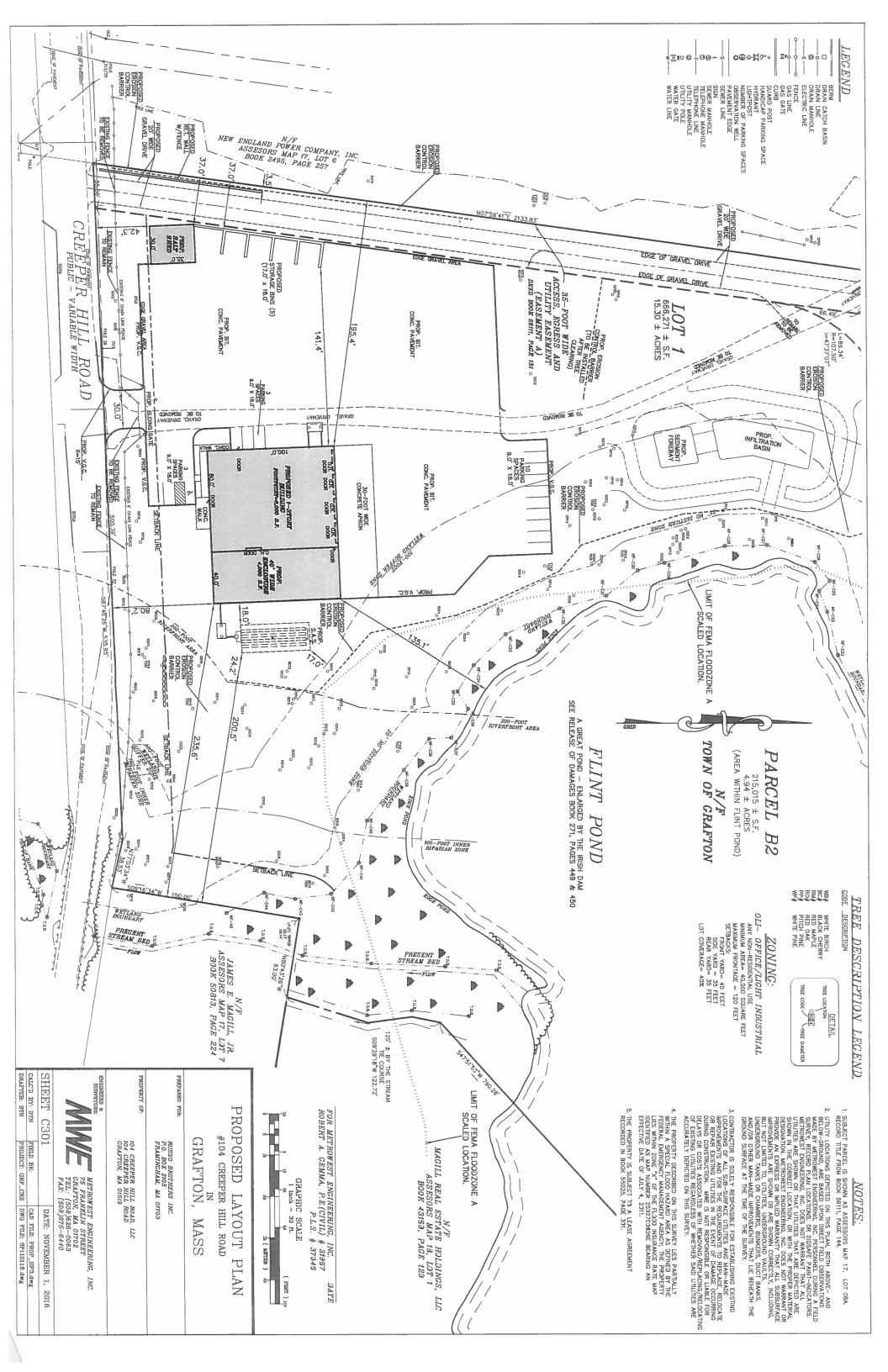
GRAPHIC SCALE 1 mch = 30 ft.

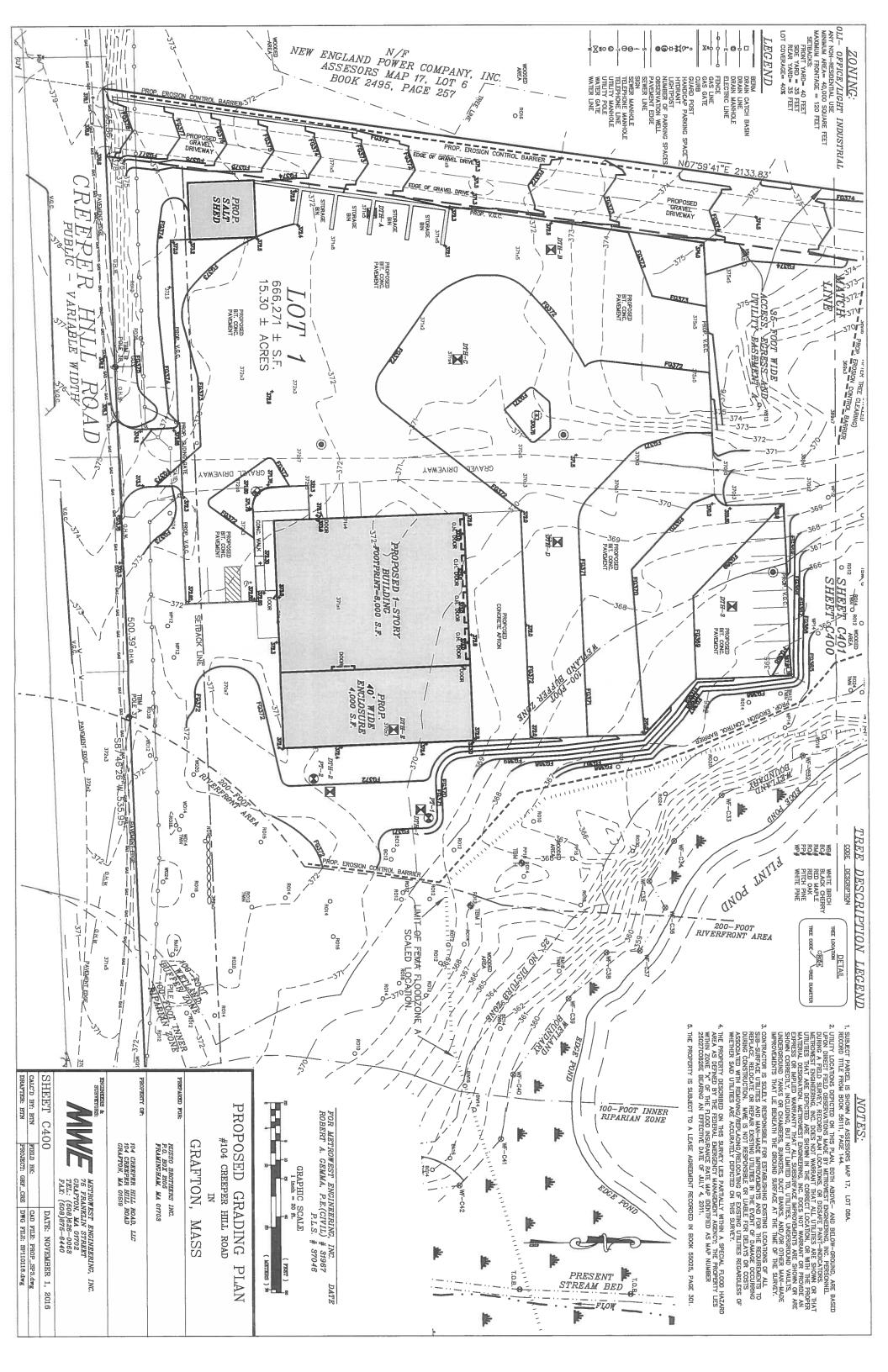
(FEET) 10

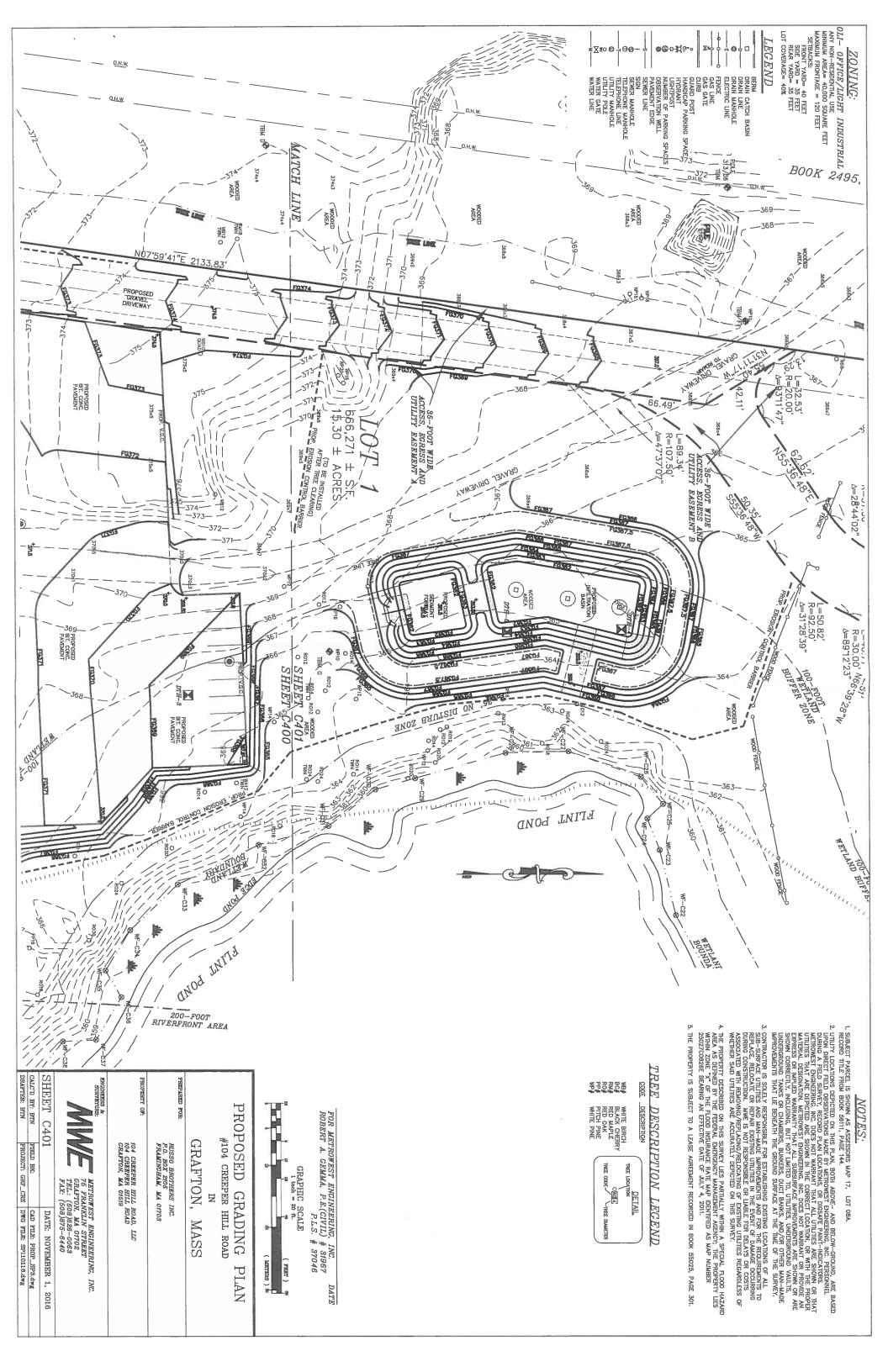


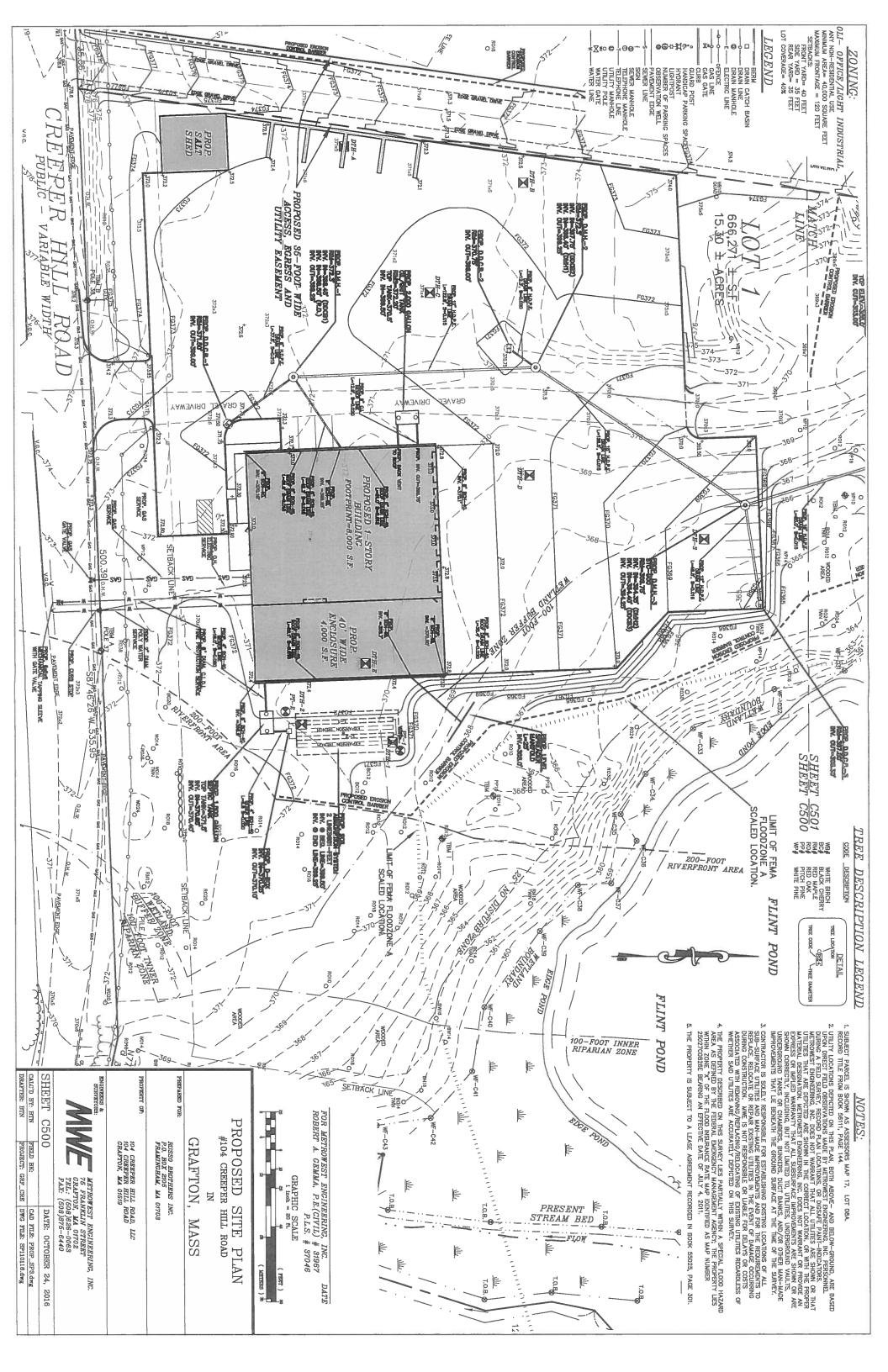


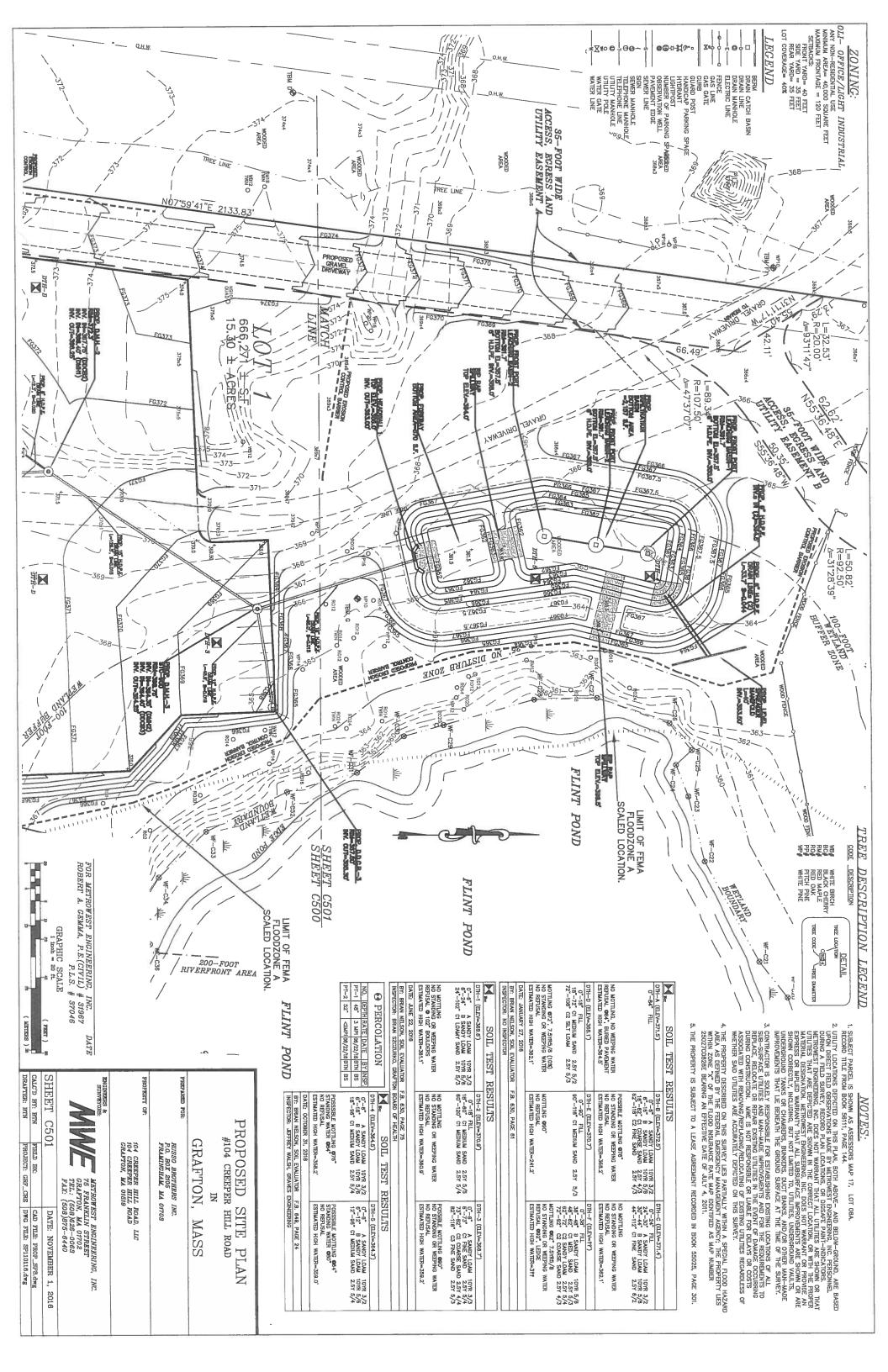


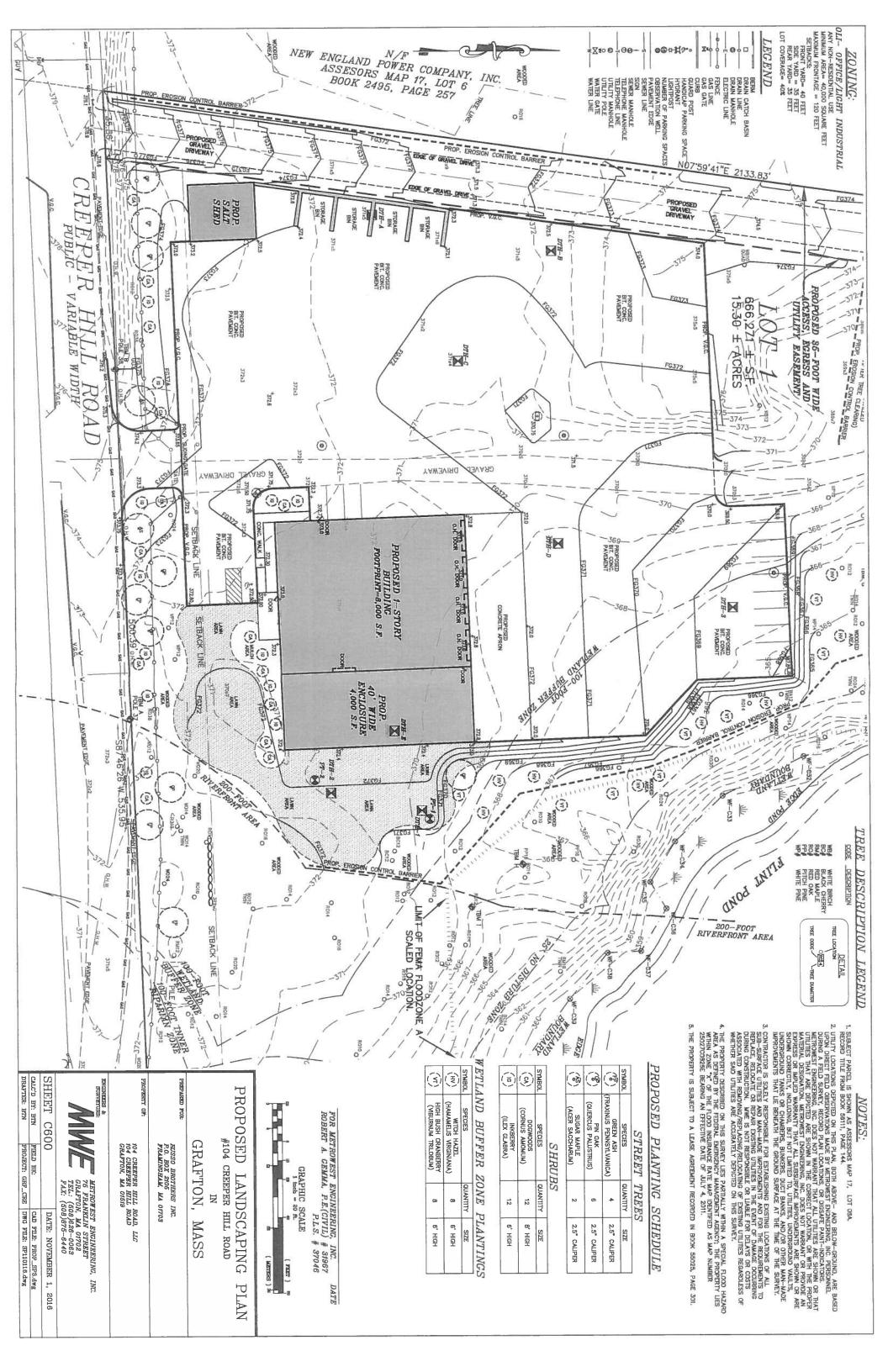












BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH ROADWAY REQUIREMENTS WHERE WATER TRENCH FALLS WITHIN LIMITS OF PROPOSED PAYEMENT. WATER MAIN TRENCH DETAIL TYPICAL SEMER TRENCH IN EARTH IN ROCK ROAD GRAVEL COMPACTED GRAVEL FILL UNEXCAVATED MATERIAL SHALL PROJECT BEYOND THIS LINE 12" MIN. NOTE BLOWN LEDGE SHALL NOT BE USED AS BACKFILL CLDI. WATER MAIN -6"SDR

TYPE "K" COPPER SERVICE PIPE EIRE TYPE BOX WTH 24° ROD CENTERED OVER CURB STOP TELESCOPING WTH PAVEMENT TOP TYPICAL WATER SERVICE CONNECTION NOT TO SCALE TYPE "K" COPPER SERVICE PIPE. POLYETHYLDIE (PE) PLASTIC SERVICE PIPE ALLOWED ON A CASE—BY—CASE BASIS (SEE CONSTRUCTION STANDARDS) LEAD FREE CURB SHUT-OFF STREET BASE STREET TEE HEAD

UTILITY NOTES

1.) ALL WORK MUST BE INSPECTED BY A DEPARTMENT OF PUBLIC WORKS UTILITY INSPECTOR. TO SCHEDULE A PRE-CONSTRUCTION MEETING OR INSPECTION CALL GRAFTON D.P.W. 48—HOURS PRIOR TO THE START OF WORK 2) ANY PROPOSED SURFACE OPENINGS AND EXCAVATION WORK WITHIN THE TOWN RIGHT OF WAY LIMITS WILL YEQUIRE A STREET OPENING PERMIT (SOP) WITH THE WORK CONDUCTED UNDER SAID PERMIT BEING PERFORMED IN YOMPLIANCE WITH THE TOWN OF GRAFTON SOP POLICY.

> 2.) BITUMINOUS PAVING THE BASE, OR WHEN WE 1) ALL MATERIALS AND STANDARDS.

SREAKER MAY BE USED I

SAWCUT ALL EXISTING TRENCHES AND EXCAVATIONS WHEN LOCATED WITHIN LIMITS OF EXISTING PAYEMENT. EAVEMENT FOR INTINL EXCAVATION AND A SAWCUT MAY BE EMPLOYED TO PROVIDE NEATER CUT FOR TRENCH PRIOR TO YEARSY. SHALL NOT BE PLACED WHEN AMBIENT TEMPERATURE IS BELOW 40-DEGREES FAHRENHEIT, OR WHEN THERE IS FROST IN ANY WAY. PAVENERY AND BASE MATERIALS AND INSTALLATION CONSTRUCTION METHODS SHALL COMPLY WITH THE TOWN OF GRAFTON DEPARTMENT OF PUBLIC WORKS CONSTRUCTION

3.) ALL DRAINAGE, WATER AND SEWER WORK (OUTSIDE OF THE BUILDING FOOTPRINT) SHALL BE PERFORMED BY A UCENSED GRAFTON DRAINLAYER.

 $\mathfrak s)$ all proposed unuty service work shall comply with the town of grafton d.p.w. construction standards. 4,) A trench opening Permit (top) shall be obtained prior to the excavation of any trench. A trench is defined under migleda, and 520 cmrn.od.s. Any excavation general than three-feet in depth and Jess than 13-feet between soil walls as measured from the Bottom.

IS) CONTRATTOR IS SOLELY RESPONSIBLE FOR ESTABLISHING EXSTING LOCATIONS OF ALL SUB-SURFACE UNLITIES AND REQUIRBAINTS TO REPLACE, RELOCATE OR REPAIR EXSTING UTILIES. MIKE IS NOT RESPONSIBLE OR LIABLE FOR DELAYS OR COSTS ASSOCIATED WITH REMOVING/REPLACING/RELOCATING OF EXISTING UTILITIES.

7.) BACKFILL IN TRENCHE CONSIST OF GRANULAR G COMPACTED IN LAYERS N DETERMINED BY AASHTO

B.) BROKEN PAVEMENT,

LARGE STONES, ROOTS AND OTHER DEBRIS SHALL NOT BE USED IN TRENCH BACKFILL

IES SHALL BE IN ACCORDANCE WITH SPECIFIC UTILITY TRENCH REQUIREMENTS. BACKFILL MATERIAL IN TRENCHES SHALL GRAVEL BORROW, PROCESSED GRAVEL, SAND OR CRUSHED STONE MATERIAL BACKFILL MATERIAL SHALL BE PLACED AND LOCKEEDING 12-140H LIFTS AND COMPACTED IO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DESIGNATION 1799 COMPACTION TEST METHODS.

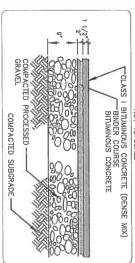
6.) CONTRACTOR SHALL

5.) PAVEMENT EDGES SHALL BE TRIMMED AND CLEANED FOR A NEAT VERTICAL FACE FREE OF LOOSE MATERIALS AND DEBRIS.

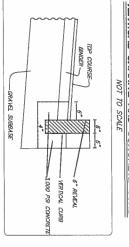
EXERCISE CARE TO PREVENT OR MINIMIZE DAMAGE TO EXISTING PAVEMENT SURROUNDING EXCAVATION WORK.

4.) SAWCUTS SHALL EXTEND COMPLETELY THROUGH BINDER AND TOP COURSE LAYERS.

BITUMINOUS CONCRETE PAVEMENT



MERTICAL GRANITE AND CONCRETE CURB



TYPICAL EASEMENENT ACCESS DRIVE CROSS SECTION

OIL & GAS SEPARATOR

COVER & FRAME

ENT TO ROOF

NOT TO SCALE

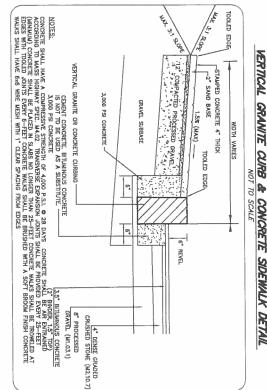
1. INFLIRATION TRENCH SHALL BE MANIMUM OF 12-INCHES WIDE AND EXCAVATED TO A DEPTH OF 30-INCHES OR THE INTERFACE OF THE B/C HORIZON, WHICHEVER IS GREATER.

2. EXCAVATION FOR HINTLINATION TRENCH SHALL BE FILLED TO WITHIN THREE-WICHES OF FINISH GRADE WITH 1.5" DOUBLE WASHED CRUSHED STONE.

3.FILTER FABRIC SHALL BE PLACED ALDNO SDEES OF EXCAVATION AND TOP OF 1.5" LAYER OF DOUBLE WASHED STONE. TRENCH NOTES

4, TOP 3-INCHES OF TRENCH SHALL BE FILLED WITH DECORATIVE, CLEAN STONE OR SEMI-ANGULAR RIP RAP TO FINISH GRADE

FRE ELECTRIC, TELEPHONE AND CABLE
(SET BELOW GRASS STRIP)
FER UTILITY COMPANIES 12" COMPACTED ROAD GRAVEL (M.H.D. M.LO3.1)
12" WIDE X 30" DEEP INFILTRATION (3") LAYER OF COMPACTED 12" MDE X 30" DEET WITH TRENCH



CONCRETE RAMP DETAIL

7. FOR INLETS LARGER THAN 10° THE DESIGN & DIMENSIONWILL BE DETERMINED FOR EACH PARTICULAR CASE.

LEVEL

SPREADER FLOW MANIFOLD DETAIL

SIDE VIEW

PROP. 8" H.D.P.E.
DRAIN LINE
L=33.7' S=0.044
FROM INFILITRATION BASIN
INV.=363.5'

6. O CONE SECTION AVAILABLE IN 4'-0" I.D. ONLY.

4. STEEL REINFORCED COPOLYMER POLYPROLENE PLASTIC STEP CONFORM TO LATEST ASTM C478 SPEC. 3. BUTYL RESIN SECTION JOINT CONFORMS TO LATEST ASTM C443 SPEC. 2. TANK TO HAVE STORAGE CAPACITY OF 2,000 GALLONS CONCRETE : 4,000 PSI MINIMUM AFTER 28 DAYS.

STEPS

INLET D A B W

SPACE 1" DIAMETER HOLES EVERY 4 INCHES. PLAN VIEW PROP. 8" H.D.P.E.
DRAIN LINE
L=33,7' S=0.044
FROM INFILTRATION BASIN
INV.=363.5'

THESE DIMENSIONS ARE SUBJECT TO CHANGE IN THE FIELD IF EXISTING APPLICATIONS WILL MAKE THE RAMP LOCATIONS IMPRACTICAL OR UNSAFE. 1/2° max SUMPACE COURSE SECTION A-A See ! MOTE. CHARISTANS SHOWN AT RANDWAY EDCE ARE PARED DISTANCES. RAME PORCES SECTION TO BE SAME AS ADALESTY SERVALY, && DEPTH OF RAME PARED AND EXPLORATION TO BE SAME AS ADALESTY SERVALY. RAME PARED TO A PARED TO THE CHARIST OF THE FAME. RAME PARED TO A PARED TO THE CHARIST OF THE FAME. RAME PARED TO A PARED TO THE PARED SHOWN OF THE THE CHARIST OF HE. RAME SHOWN CASE ARE THE PARES TO BE PLACED BERNEY OF THE THE CHARIST OF HE. RAME SERVALS THAT CROSS DRYFIN ITS SHALL BE RAMED TO HERT GRADE OF DRIVEWAY.

GRAFTON PLANNING BOARD SITE PLAN REVIEW UNDER SECTION 1V.2.D

16.) IMPORTED SUBBASE MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING TWELVE-INCHES AND COMPACTED IN TO NOT LESS THAN 95% OF THE MAXMUM DRY DENSITY IN ACCORDANCE WITH AASHTO SPECIFICATION 199.

SE MATERIAL SHALL BE REMOVED AND REPLACED WITH MATERIAL IN CONFORMANCE WITH MASSDOT SPECIFICATION JW OR SPECIFICATION M.2.03.0 FOR GRAVEL BORROW. MATERIALS SHALL BE COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH 1789. HALL BE PLACED IN LIFTS NOT TO EXCEED BIGHT-INCHES (B") AND COMPACTED TO NOT LESS THAN 95% OF THE IN ACCODANCE WITH AASHTO SPECIFICATION T99.

15.) UNSUITABLE SUBBA M1.02.0, SPECIAL BORRO

13.) BASE MATERIALS SH MAXIMUM DRY DENSITY II

14.) SUITABLE SUBBASE AASHTO SPECIFICATION

12.) GRAVEL BASE MATERIAL SHALL CONSIST OF A LAYER OF EITHER DENSE GRADE CRUSHED STONE COMPLYING WITH REQUIREMENTS OF MASSDOT SECTION M2.01.7 OR GRAVEL BORROW COMPLYING WITH REQUIREMENTS OF MASSDOT SECTION M1.03.0. 11;) ROLLER SHALL NOT EXCEED A SPEED OF 3 MILES PER HOUR DURING ROLLING OPERATIONS TO ENSURE PROPER COMPACTION. ANY RIDGES, INDENTATIONS SHALL BE ROLLED ADDITIONALLY UNTIL THEY ARE REMOVED. 10.) PAVENENT SHALL BE COMPACTED AND ROLLED BY AN OSCILLATING ROLLER WITH A WEIGHT OF NOT LESS THAN 10-TONS. ROLLER SHALL MAKE AT LEAST FOUR PASSES OVER ALL NEWLY PLACED PAYEMENT. 9.) PERMANENT PAYEMENT SHALL CONSIST OF A TOP COURSE LAYER OF NOT LESS THAN TWO-INCHES (2") AND A BINDER COURSE LAYER OF NOT LESS THAN THREE-INCHES (3") AFTER COMPACTION. PAYEMENT SHALL BE MIXED IN ACCORDANCE WITH MASSOOT SPECIFICATION SECTION M3.11.03 (TABLE A).

THE ENDORSEMENT OF THE PLANNING BOARD SHOULD NOT BE CONSTRUED TO BE A DETERMINATION OF CONFORMANCE WITH ZONING REGULATIONS. DATE:

FOR METROWEST ENGINEERING, INC. DATE ROBERT A. GEMMA, P.E. # 31967 (CIVIL)

#104 CREEPER HILL ROAD DETAILS PLAN

Ħ

GRAFTON, MASS

PREPARED FOR

RUSSO BROTHERS INC. P.O. BOX 2105 FRAMINGHAM, MA 01703

PROPERTY OF: 104 CREEPER HILL ROAD, LLC 104 CREEPER HILL ROAD CRAFTON, MA 01519

METROWEST ENGINEERING, INC.
75 FRANKLIN STREET
GRAFTON, MA 01702
TEL: (508)826-0063
FAX: (508)875-6440

CALC'D BY: BIN DRAFTER: BIN SHEET C700 FIELD BK: CAD FILE: PROP_SP3.dwg
PROJECT: GRF_CRE DWG FILE: SP110116.dwg DATE: NOVEMBER 1, 2016

